

Hankins
Park

#9

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/281,792B

DATE: 05/18/2001

TIME: 13:11:23

Input Set : A:\36595160.app

Output Set: N:\CRF3\05182001\I281792B.raw

ENTERED

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Chandrasegaran, Srinivasan

8 (ii) TITLE OF INVENTION: METHODS FOR INACTIVATION TARGET DNA AND
9 FOR DETECTING CONFORMATIONAL CHANGE IN A NUCLEIC ACID

11 (iii) NUMBER OF SEQUENCES: 31

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: VENABLE, BAETJER, HOWARD & CIVILETTI, LLP

15 (B) STREET: 1201 New York Avenue, N.W., Suite 1000

16 (C) CITY: Washington

17 (D) STATE: DC

18 (E) COUNTRY: USA

19 (F) ZIP: 20005

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Floppy disk

23 (B) COMPUTER: IBM PC compatible

24 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

25 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

27 (vi) CURRENT APPLICATION DATA:

C--> 28 (A) APPLICATION NUMBER: US/09/281,792B

C--> 29 (B) FILING DATE: 31-Mar-1999

30 (C) CLASSIFICATION:

32 (viii) ATTORNEY/AGENT INFORMATION:

33 (A) NAME: Hobbs, Ann S.

34 (B) REGISTRATION NUMBER: 36,830

35 (C) REFERENCE/DOCKET NUMBER: 36595160594

37 (ix) TELECOMMUNICATION INFORMATION:

38 (A) TELEPHONE: 202-962-4800

39 (B) TELEFAX: 202-962-8300

42 (2) INFORMATION FOR SEQ ID NO: 1:

44 (i) SEQUENCE CHARACTERISTICS:

45 (A) LENGTH: 23 amino acids

46 (B) TYPE: amino acid

47 (C) STRANDEDNESS:

48 (D) TOPOLOGY: linear

50 (ii) MOLECULE TYPE: peptide

55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

W--> 57 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
58 1 5 10 15W--> 60 Xaa Xaa His Xaa Xaa Xaa His
61 20

63 (2) INFORMATION FOR SEQ ID NO: 2:

65 (i) SEQUENCE CHARACTERISTICS:

66 (A) LENGTH: 24 amino acids

67 (B) TYPE: amino acid

68 (C) STRANDEDNESS:

69 (D) TOPOLOGY: linear

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71 (ii) MOLECULE TYPE: peptide
76 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
W--> 78 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
79 1 5 10 15
W--> 81 Xaa Xaa His Xaa Xaa Xaa Xaa His
82 20
84 (2) INFORMATION FOR SEQ ID NO: 3:
86 (i) SEQUENCE CHARACTERISTICS:
87 (A) LENGTH: 25 amino acids
88 (B) TYPE: amino acid
89 (C) STRANDEDNESS:
90 (D) TOPOLOGY: linear
92 (ii) MOLECULE TYPE: peptide
97 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
W--> 99 Tyr Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
100 1 5 10 15
W--> 102 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
103 20 25
105 (2) INFORMATION FOR SEQ ID NO: 4:
107 (i) SEQUENCE CHARACTERISTICS:
108 (A) LENGTH: 24 amino acids
109 (B) TYPE: amino acid
110 (C) STRANDEDNESS:
111 (D) TOPOLOGY: linear
113 (ii) MOLECULE TYPE: peptide
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
W--> 120 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
121 1 5 10 15
W--> 123 Leu Xaa Xaa His Xaa Xaa Xaa His
124 20
126 (2) INFORMATION FOR SEQ ID NO: 5:
128 (i) SEQUENCE CHARACTERISTICS:
129 (A) LENGTH: 25 amino acids
130 (B) TYPE: amino acid
131 (C) STRANDEDNESS:
132 (D) TOPOLOGY: linear
134 (ii) MOLECULE TYPE: peptide
139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
W--> 141 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
142 1 5 10 15
W--> 144 Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
145 20 25
147 (2) INFORMATION FOR SEQ ID NO: 6:
149 (i) SEQUENCE CHARACTERISTICS:
150 (A) LENGTH: 26 amino acids
151 (B) TYPE: amino acid
152 (C) STRANDEDNESS:
153 (D) TOPOLOGY: linear
155 (ii) MOLECULE TYPE: peptide

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160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
 W--> 162 Tyr Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
 163 1 5 10 15
 W--> 165 Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
 166 20 25
 168 (2) INFORMATION FOR SEQ ID NO: 7:
 170 (i) SEQUENCE CHARACTERISTICS:
 171 (A) LENGTH: 25 amino acids
 172 (B) TYPE: amino acid
 173 (C) STRANDEDNESS:
 174 (D) TOPOLOGY: linear
 176 (ii) MOLECULE TYPE: peptide
 181 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
 W--> 183 Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
 184 1 5 10 15
 W--> 186 Xaa Leu Xaa Xaa His Xaa Xaa Xaa His
 187 20 25
 189 (2) INFORMATION FOR SEQ ID NO: 8:
 191 (i) SEQUENCE CHARACTERISTICS:
 192 (A) LENGTH: 26 amino acids
 193 (B) TYPE: amino acid
 194 (C) STRANDEDNESS:
 195 (D) TOPOLOGY: linear
 197 (ii) MOLECULE TYPE: peptide
 202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
 W--> 204 Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
 205 1 5 10 15
 W--> 207 Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
 208 20 25
 210 (2) INFORMATION FOR SEQ ID NO: 9:
 212 (i) SEQUENCE CHARACTERISTICS:
 213 (A) LENGTH: 27 amino acids
 214 (B) TYPE: amino acid
 215 (C) STRANDEDNESS:
 216 (D) TOPOLOGY: linear
 218 (ii) MOLECULE TYPE: peptide
 223 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
 W--> 225 Tyr Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
 226 1 5 10 15
 W--> 228 Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His
 229 20 25
 231 (2) INFORMATION FOR SEQ ID NO: 10:
 233 (i) SEQUENCE CHARACTERISTICS:
 234 (A) LENGTH: 23 amino acids
 235 (B) TYPE: amino acid
 236 (C) STRANDEDNESS:
 237 (D) TOPOLOGY: linear
 239 (ii) MOLECULE TYPE: peptide
 244 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

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Input Set : A:\36595160.app
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W--> 246 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
247 1 5 10 15
W--> 249 Xaa Xaa His Xaa Xaa Xaa His
250 20
252 (2) INFORMATION FOR SEQ ID NO: 11:
254 (i) SEQUENCE CHARACTERISTICS:
255 (A) LENGTH: 24 amino acids
256 (B) TYPE: amino acid
257 (C) STRANDEDNESS:
258 (D) TOPOLOGY: linear
260 (ii) MOLECULE TYPE: peptide
265 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
W--> 267 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
268 1 5 10 15
W--> 270 Xaa Xaa His Xaa Xaa Xaa Xaa His
271 20
273 (2) INFORMATION FOR SEQ ID NO: 12:
275 (i) SEQUENCE CHARACTERISTICS:
276 (A) LENGTH: 25 amino acids
277 (B) TYPE: amino acid
278 (C) STRANDEDNESS:
279 (D) TOPOLOGY: linear
281 (ii) MOLECULE TYPE: peptide
286 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
W--> 288 Phe Xaa Cys Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa Leu
289 1 5 10 15
W--> 291 Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His
292 20 25
294 (2) INFORMATION FOR SEQ ID NO: 13:
296 (i) SEQUENCE CHARACTERISTICS:
297 (A) LENGTH: 24 amino acids
298 (B) TYPE: amino acid
299 (C) STRANDEDNESS:
300 (D) TOPOLOGY: linear
302 (ii) MOLECULE TYPE: peptide
307 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
W--> 309 Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
310 1 5 10 15
W--> 312 Leu Xaa Xaa His Xaa Xaa Xaa His
313 20
315 (2) INFORMATION FOR SEQ ID NO: 14:
317 (i) SEQUENCE CHARACTERISTICS:
318 (A) LENGTH: 25 amino acids
319 (B) TYPE: amino acid
320 (C) STRANDEDNESS:
321 (D) TOPOLOGY: linear
323 (ii) MOLECULE TYPE: peptide
328 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
W--> 330 Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa

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Input Set : A:\36595160.app
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331	1	5	10	15	
W--> 333	Leu Xaa Xaa His Xaa Xaa Xaa Xaa His				
334	20 25				
336	(2) INFORMATION FOR SEQ ID NO: 15:				
338	(i) SEQUENCE CHARACTERISTICS:				
339	(A) LENGTH: 26 amino acids				
340	(B) TYPE: amino acid				
341	(C) STRANDEDNESS:				
342	(D) TOPOLOGY: linear				
344	(ii) MOLECULE TYPE: peptide				
349	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:				
W--> 351	Phe Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa				
352	1	5	10	15	
W--> 354	Leu Xaa Xaa His Xaa Xaa Xaa Xaa Xaa His				
355	20 25				
357	(2) INFORMATION FOR SEQ ID NO: 16:				
359	(i) SEQUENCE CHARACTERISTICS:				
360	(A) LENGTH: 25 amino acids				
361	(B) TYPE: amino acid				
362	(C) STRANDEDNESS:				
363	(D) TOPOLOGY: linear				
365	(ii) MOLECULE TYPE: peptide				
370	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:				
W--> 372	Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa				
373	1	5	10	15	
W--> 375	Xaa Leu Xaa Xaa His Xaa Xaa Xaa His				
376	20 25				
378	(2) INFORMATION FOR SEQ ID NO: 17:				
380	(i) SEQUENCE CHARACTERISTICS:				
381	(A) LENGTH: 26 amino acids				
382	(B) TYPE: amino acid				
383	(C) STRANDEDNESS:				
384	(D) TOPOLOGY: linear				
386	(ii) MOLECULE TYPE: peptide				
391	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:				
W--> 393	Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa				
394	1	5	10	15	
W--> 396	Xaa Leu Xaa Xaa His Xaa Xaa Xaa Xaa His				
397	20 25				
399	(2) INFORMATION FOR SEQ ID NO: 18:				
401	(i) SEQUENCE CHARACTERISTICS:				
402	(A) LENGTH: 27 amino acids				
403	(B) TYPE: amino acid				
404	(C) STRANDEDNESS:				
405	(D) TOPOLOGY: linear				
407	(ii) MOLECULE TYPE: peptide				
412	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:				
W--> 414	Phe Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa				
415	1	5	10	15	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/281,792B

DATE: 05/18/2001

TIME: 13:11:24

Input Set : A:\36595160.app
Output Set: N:\CRF3\05182001\I281792B.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:267 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:312 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18